## Immunotag<sup>™</sup> Phospho-MAPKAP Kinase 2 (Thr334) Antibody

Antibody Specification	
Catalog No.	ITA7652
Product Description	Immunotag™ Phospho-MAPKAP Kinase 2 (Thr334) Antibody
Size	100 μg, 200 μg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-MAPKAP Kinase 2 (Thr334)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthetic phosphopeptide from around the phosphorylation site of threonine 334 (PQTPPL) of human MAPKAP Kinase 2
Specificity	Detects endogenous levels of MAPKAP Kinase 2 only when phosphorylated at threonine 334 (human) and threonine 320 (mouse and rat).
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt
Gene Name	MAPKAPK2
Accession No.	P49137

Antibody Specification	
Alternate Names	MAP kinase activated protein Kinase 2; MAP kinase-activated protein kinase 2; MAPK activated protein kinase 2; MAPK-activated protein kinase 2; MAPK2_HUMAN; MAPKAP K2; MAPKAP kinase 2; MAPKAPK 2; MAPKAPK-2; MAPKAPK2; Mitogen activated protein kinase activated protein kinase 2; MK 2; MK2;
Description	Stress-activated serine/threonine-protein kinase involved in cytokine production, endocytosis, reorganization of the cytoskeleton, cell migration, cell cycle control, chromatin remodeling, DNA damage response and transcriptional regulation. Following stress, it is phosphorylated and activated by MAP kinase p38-alpha/MAPK14, leading to phosphorylated of substrates. Phosphorylates serine in the peptide sequence, Hyd-X-R-X2-S, where Hyd is a large hydrophobic residue. Phosphorylates ALOX5, CDC25B, CDC25C, CEP131, ELAVL1, HNRNPA0, HSP27/HSPB1, KRT18, KRT20, LIMK1, LSP1, PABPC1, PARN, PDE4A, RCSD1, RP56KA3, TAB3 and TTP/ZFP36. Phosphorylates HSF1; leading to the interaction with HSP90 proteins and inhibiting HSF1 homotrimerization, DNA-binding and transactivation activities (PubMed:16278218). Mediates phosphorylation of HSP27/HSPB1 in response to stress, leading to the dissociation of HSP27/HSPB1 from large small heat-shock protein (sHsps) oligomers and impairment of their chaperone activities and ability to protect against oxidative stress effectively. Involved in inflammatory response by regulating tumor necrosis factor (TNF) and IL6 production post-transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding proteins ELAVL1, HNRNPA0, PABPC1 and TTP/ZFP36, leading to the regulation of the stability and translation of TNF and IL6 mRNAs. Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF, promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity, leading to inhibition of dependent degradation of ARE-containing transcripts. Phosphorylates CEP131 in response to cellular stress induced by ultraviolet irradiation which promotes binding of CEP131 to 14-3-3 proteins and inhibits formation of novel centriolar satellites (PubMed:26616734). Also involved in late G2/M checkpoint following DNA damage through a process of post-transcriptional mRNA stabilization: following DNA damage through a process of post-transcriptional mRNA stabilization: following DNA damage, relocali
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	46 kDa.
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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